



Consumer Transaction Load Limits – Workshop

August 4, 2011

A collage of recycled plastic bottles and a metal can, with a semi-transparent blue wave-like graphic overlaying the top half of the image.

AGENDA

1. Background and Overview of the Project
2. Description of Project outputs
 - ☐ Methodology
 - ☐ Source
 - ☐ Scope
 - ☐ Results
3. Discussion and Feedback
4. Next Steps



BACKGROUND AND OVERVIEW

- REB and DOJ field work indicates large consumer transactions are not indicative of a legitimate consumer transaction
 - ❑ Trafficking in out of state UBCs uses large consumer transactions to defraud the CBCRF by redeeming these UBCs for maximizing ill gotten gains



BACKGROUND AND OVERVIEW

- According to >250 lbs AL reporting data, significant numbers of individuals are redeeming large amounts of material for CRV on a daily and weekly basis
 - ❑ Strong indicator that substantial quantities of wholesale transactions are being represented as simply 'large' consumer transactions.



BACKGROUND AND OVERVIEW

- Department believes that current daily load limits in 14CCR Section 2535(f) enable/facilitate fraud against the CBCRF
- The Department has attempted to address this issue in the recent past:
 - ❑ In March 2009, proposed revisions to 14CCR
 - ❑ May 13, 2011 Notice to all certified recycling centers



BACKGROUND AND OVERVIEW

- CalRecycle undertook this project to provide an analytical basis for load limits that reflect Californian's legitimate consumer recycling behaviors
 - ❑ REB utilized data captured through enforcement activities
 - ❑ This workshop will present results from the aggregation and analysis of Consumer Transaction Profile Data



DESCRIPTION OF PROJECT

➤ Source of Data

- ☐ A Consumer Transaction Profile (CTP) is a process where CalRecycle, Recycling Enforcement Branch (REB), staff document every consumer transaction (Receipt and Log entry) during the course of normal business at a Recycling Center.
- ☐ The preponderance of CTP data is associated with RCs having consumer volumes in the top 20% of the program
- ☐ CTPs on average are 3 to 5 days in duration



DESCRIPTION OF PROJECT

➤ Scope of Data

- ☐ **Aluminum, Glass, and PET** material types are included in the analysis
- ☐ The transaction are for the period of May 2001 through August 2011
- ☐ **95,825** transactions accounting for **2,431,293** pounds of material were keyed into a database for analysis
- ☐ **158** Recycling Centers are included in the data

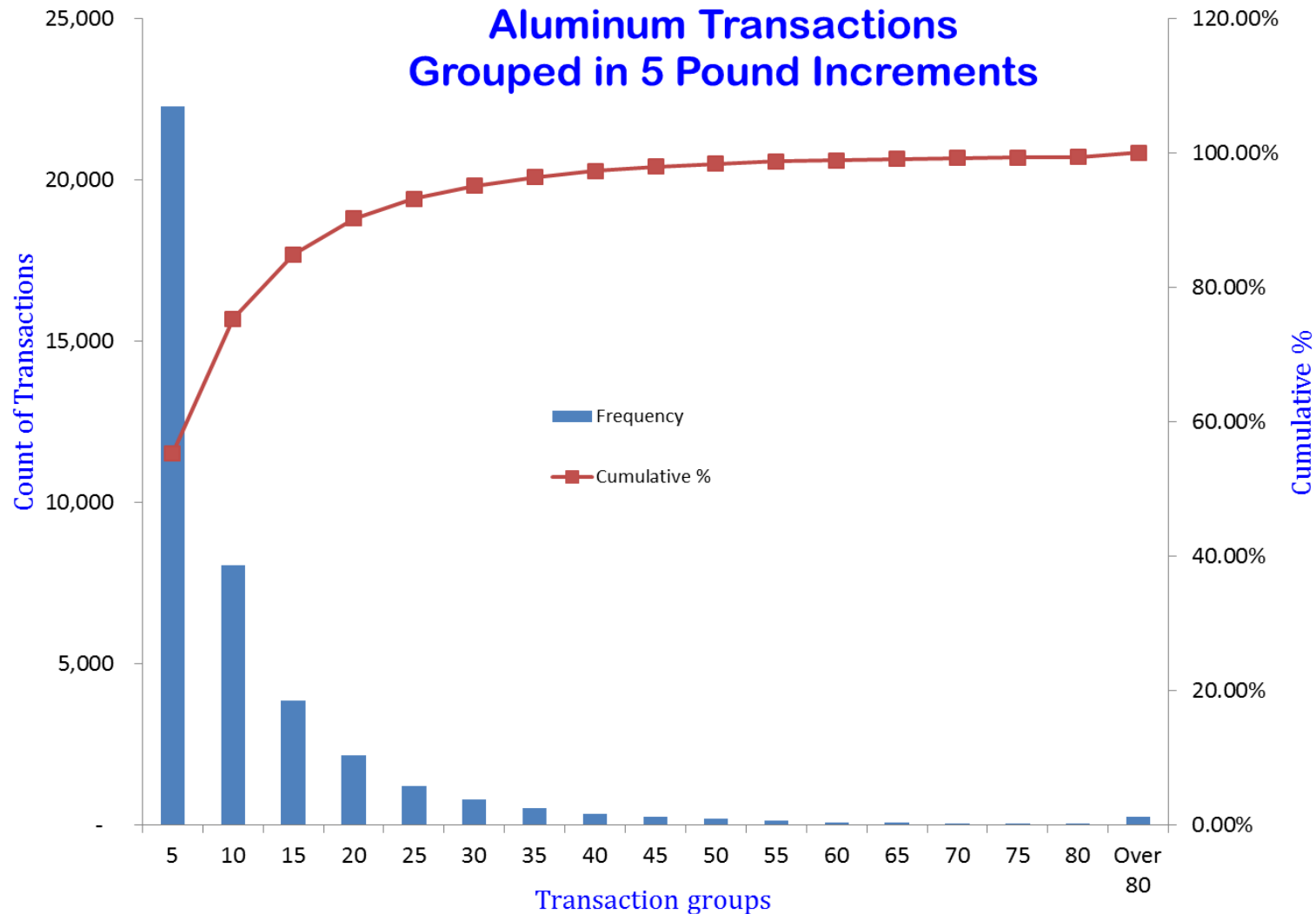


SUMMARY OF ALUMINUM RESULTS

- Total count of Aluminum transactions is **40,277**
- Total weight of Aluminum transactions is **352,076.7** pounds
- Average weight of Aluminum transactions is **8.7** pounds
- Median weight of Aluminum transactions is **4.3** pounds
- Standard deviation of Aluminum transactions is **15.4** pounds
- **99.38%** of all transactions surveyed for Aluminum are \leq **80** pounds
- Transaction equal to or greater than 250 pounds comprised **0.04%** of the transaction counts, and **1.587%** of weight, a factor of **39.7** ($1.587/0.04$)

ALUMINUM CTP TRANSACTIONS

Transaction Groups	Number of Transactions	Cumulative %
5	22,282	55.32%
10	8,043	75.29%
15	3,856	84.86%
20	2,148	90.20%
25	1,196	93.17%
30	779	95.10%
35	517	96.39%
40	347	97.25%
45	261	97.89%
50	199	98.39%
55	118	98.68%
60	82	98.89%
65	68	99.05%
70	55	99.19%
75	38	99.28%
80	37	99.38%
Over 80	251	100.00%
	40,277	



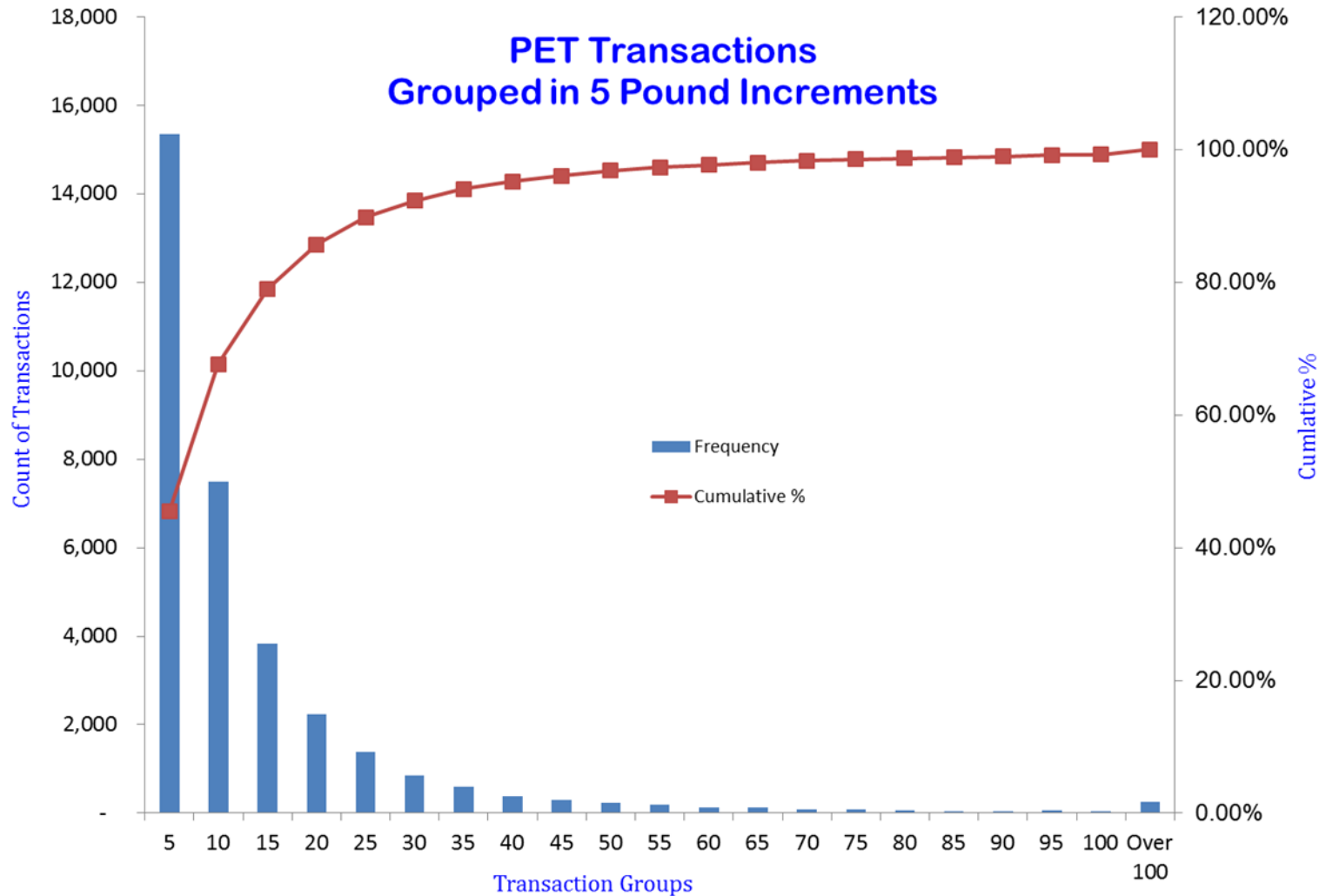


SUMMARY OF PET RESULTS

- Total count of PET transactions is **33,744**
- Total weight of PET transactions is **390,592.2** pounds
- Average weight of PET transactions is **11.6** pounds
- Median weight of PET transactions is **6** pounds
- Standard deviation of PET transactions is **19.7** pounds
- **98.7%** of all transactions surveyed for PET are **80** pounds or less
- The percentage of PET transaction counts over 80 pounds is larger than Aluminum (containers per pound; PET = 14.5, AL = 29.1)

PET CTP TRANSACTIONS

Transaction Groups	Number of Transactions	Cumulative %
5	15,342	45.47%
10	7,499	67.69%
15	3,832	79.05%
20	2,236	85.67%
25	1,389	89.79%
30	850	92.31%
35	603	94.09%
40	372	95.20%
45	302	96.09%
50	241	96.81%
55	179	97.34%
60	128	97.72%
65	121	98.07%
70	78	98.30%
75	78	98.54%
80	54	98.70%
85	50	98.84%
90	49	98.99%
95	54	99.15%
100	32	99.24%
Over 100	255	100.00%
	33,744	



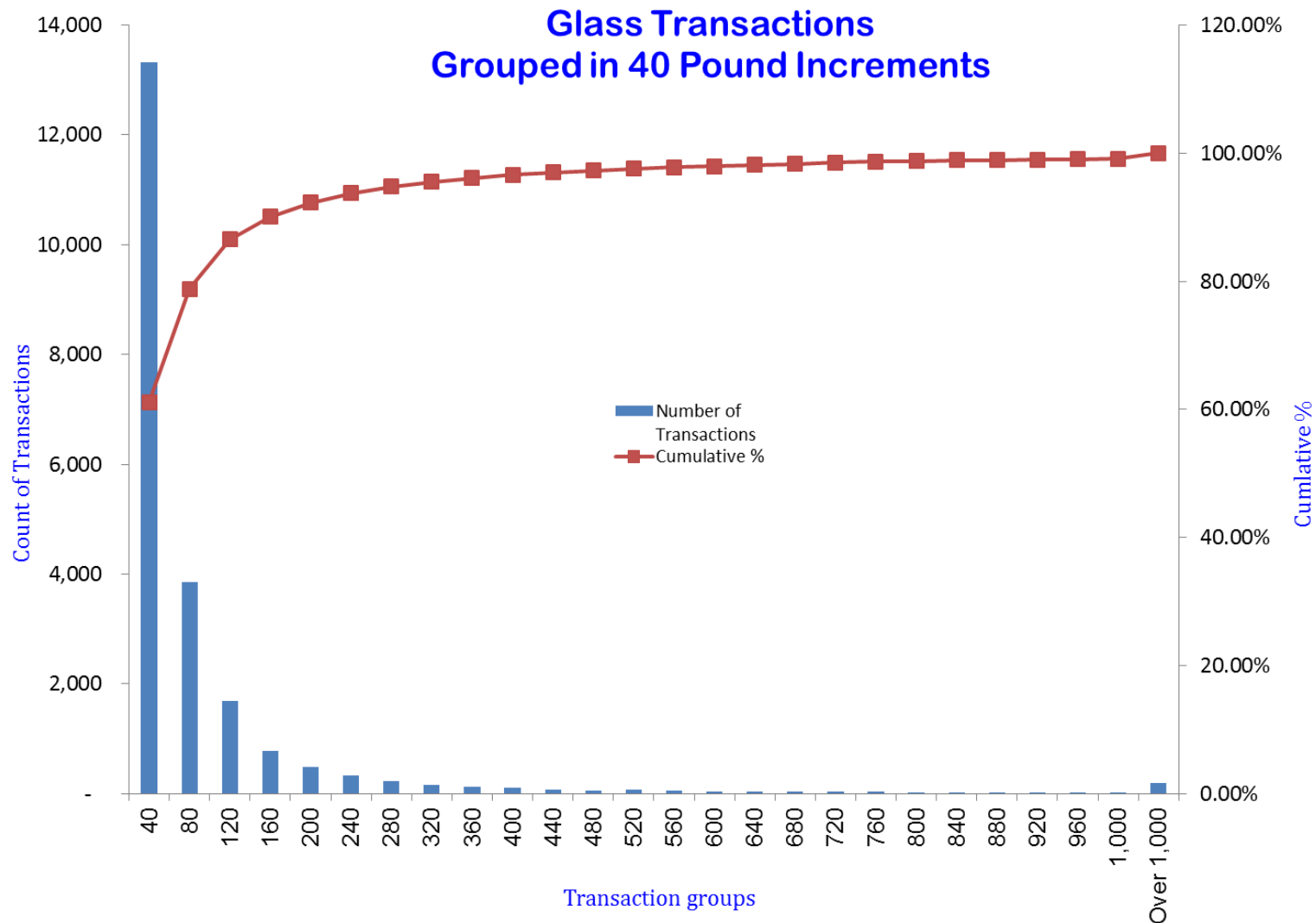


SUMMARY OF GLASS RESULTS

- Total count of Glass transactions is **21,804**
- Total weight of Glass transactions is **1,688,687.2** pounds
- Average weight of Glass transactions is **77.4** pounds
- Median weight of Glass transactions is **27** pounds
- Standard deviation of Glass transactions is **184.4** pounds
- **99.11%** of all transactions surveyed for Glass are **1,000** pounds or less

GLASS CTP TRANSACTIONS

Transaction Groups	Number of Transactions	Cumulative %
40	13,324	61.11%
80	3,851	78.77%
120	1,686	86.50%
160	782	90.09%
200	480	92.29%
240	322	93.77%
280	220	94.78%
320	162	95.52%
360	132	96.13%
400	114	96.65%
440	75	96.99%
480	56	97.25%
520	68	97.56%
560	47	97.78%
600	40	97.96%
640	43	98.16%
680	34	98.31%
720	46	98.52%
760	32	98.67%
800	23	98.78%
840	19	98.86%
880	12	98.92%
920	15	98.99%
960	14	99.05%
1,000	13	99.11%
Over 1,000	194	100.00%
	21,804	





DISCUSSION AND FEEDBACK



NEXT STEPS